

CRF Errors Corrected by the STIC Systems Branch

Serial Number: 10/CCS, 524H

CRF Processing Date: 8/27/00
 Edited by: IX
 Verified by: _____ (STIC staff)

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: _____
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
- ☒ Deleted: ☒ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☐ Other: _____

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.



OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/008,524A

DATE: 08/27/2002 8.6
TIME: 11:28:50

Input Set : A:\PTO.DC.TXT

Output Set: N:\CRF3\08272002\J008524A.raw

```

3 <110> APPLICANT: Doorbar, John
5 <120> TITLE OF INVENTION: IMPROVEMENTS IN OR RELATING TO SCREENING FOR PAPILLOMA
6     VIRUSES
8 <130> FILE REFERENCE: 18396/1074
10 <140> CURRENT APPLICATION NUMBER: 10/008,524A
C--> 11 <141> CURRENT FILING DATE: 2002-08-13
13 <150> PRIOR APPLICATION NUMBER: 09/314,268
14 <151> PRIOR FILING DATE: 1999-05-18
16 <160> NUMBER OF SEQ ID NOS: 179
18 <170> SOFTWARE: PatentIn Ver. 2.1
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 375
22 <212> TYPE: DNA
23 <213> ORGANISM: Human papillomavirus type 16
25 <400> SEQUENCE: 1
26 qegetgccac tctcagaagt tattgtcaca aacttgcaac ttgetttggc aaatagctct 60
27 cgaatgctg togetctttc tgccagccct caactgaaag aggccagtc agagaaggaa 120
28 qaagcccaa agccacttca caaagtagtg gtatgtgta gtaaaaaact cagtaagaag 180
29 cagagtgaac taaatqqgat cgcagcctct ctaggagcag attacaggtg gagttttag 240
30 qaanaagtg ctcatttcat ctatcaaggg cggccaaatg acactaatcg qgagtataaa 300
31 tctgtaaaaa aaagaggagt acacattgtt tccgagcact ggetttttaga ttgtgcccaa 360
32 gagtgtaaaac atctt 375
35 <210> SEQ ID NO: 2
36 <211> LENGTH: 125
37 <212> TYPE: PRT
38 <213> ORGANISM: Homo sapiens
40 <400> SEQUENCE: 2
41 Ala Leu Pro Leu Ser Glu Val Ile Val Lys Asn Leu Gln Leu Ala Leu
42 1 5 10 15
43 Ala Asn Ser Ser Arg Asn Ala Val Ala Leu Ser Ala Ser Pro Gln Leu
44 20 25 30
45 Lys Glu Ala Gln Ser Glu Lys Glu Glu Ala Pro Lys Pro Leu His Lys
46 35 40 45
47 Val Val Val Cys Val Ser Lys Lys Leu Ser Lys Lys Gln Ser Glu Leu
48 50 55 60
49 Asn Gly Ile Ala Ala Ser Leu Gly Ala Asp Tyr Arg Trp Ser Phe Asp
50 65 70 75 80

```

RAW SEQUENCE LISTING

DATE: 08/27/2002

PATENT APPLICATION: US/10/008,524A

TIME: 11:28:50

Input Set : A:\PTO.DC.TXT

Output Set: N:\CRF3\08272002\J008524A.raw

```

66 <210> SEQ ID NO: 3
67 <211> LENGTH: 491
68 <212> TYPE: PRT
69 <213> ORGANISM: Homo sapiens
71 <400> SEQUENCE: 3
72 Ala Pro Glu Glu His Asp Ser Pro Thr Glu Ala Ser Gln Pro Ile Val
73   1           5           10           15
74 Glu Glu Glu Glu Thr Lys Thr Phe Lys Asp Leu Gly Val Thr Asp Val
75           20           25           30
76 Leu Cys Glu Ala Cys Asp Gln Leu Gly Trp Thr Lys Pro Thr Lys Ile
77   35           40           45
78 Gln Ile Glu Ala Tyr Ser Leu Ala Leu Gln Gly Arg Asp Ile Ile Gly
79   50           55           60
80 Leu Ala Glu Thr Gly Ser Gly Lys Thr Gly Ala Phe Ala Leu Pro Ile
81   65           70           75           80
82 Leu Asn Ala Leu Leu Glu Thr Pro Gln Arg Leu Phe Ala Leu Val Leu
83   85           90           95
84 Thr Pro Thr Arg Ser Trp Pro Phe Arg Ser Gln Ser Ser Leu Lys Pro
85   100          105          110
86 Trp Ser Ser Ile Gly Val Gln Ser Ala Val Ile Val Gly Gly Ile Asp
87   115          120          125
88 Ser Met Ser Gln Ser Leu Ala Leu Ala Lys Lys Pro His Ile Ile Ile
89   130          135          140
90 Ala Thr Pro Gly Arg Leu Ile Asp His Leu Glu Asn Thr Lys Gly Phe
91   145          150          155          160
92 Asn Leu Arg Ala Leu Lys Tyr Leu Val Met Asp Glu Ala Asp Arg Ile
93   165          170          175
94 Leu Asn Met Asp Phe Glu Thr Glu Val Asp Lys Ile Leu Lys Val Ile
95   180          185          190
96 Pro Arg Asp Arg Lys Thr Phe Leu Phe Ser Ala Thr Met Thr Lys Lys
97   195          200          205
98 Val Gln Lys Leu Gln Arg Ala Ala Leu Lys Asn Pro Val Lys Cys Ala
99   210          215          220
100 Val Ser Ser Lys Tyr Gln Thr Val Glu Lys Leu Gln Gln Tyr Tyr Ile
101  225          230          235          240
102 Phe Ile Pro Ser Lys Phe Lys Asp Thr Tyr Leu Val Tyr Ile Leu Asn
103   245          250          255
104 Glu Leu Ala Gly Asn Ser Phe Met Ile Phe Cys Ser Thr Cys Asn Asn
105   260          265          270
106 Thr Gln Arg Thr Ala Leu Leu Leu Arg Asn Leu Gly Phe Thr Ala Ile
107   275          280          285
108 Pro Leu His Gly Gln Met Ser Lys Arg Leu Gly Ser Leu Asn Lys Phe
109   290          295          300
110 Lys Ala Lys Ala Arg Ser Ile Leu Leu Ala Thr Asp Val Ala Ser Arg
111  305          310          315          320
112 Gly Leu Asp Ile Pro His Val Asp Val Val Val Asn Phe Asp Ile Pro
113  325          330

```

RAW SEQUENCE LISTING

DATE: 08/27/2002

PATENT APPLICATION: US/10/008,524A

TIME: 11:28:50

Input Set : A:\PTO.DC.TXT

Output Set: N:\CRF3\08272002\J008524A.raw

```

139 Gly Arg Ser Gly Lys Ala Ile Thr Phe Val Thr Gln Tyr Asp Val Glu
139          355          360          365
141 Leu Phe Gln Arg Ile Glu His Leu Ile Gly Lys Lys Leu Pro Gly Phe
142          370          375          380
144 Pro Thr Gln Asp Asp Glu Val Met Met Leu Thr Glu Arg Val Ala Glu
145 385          390          395          400
147 Ala Gln Arg Phe Ala Arg Met Glu Leu Arg Glu His Gly Glu Lys Lys
148          405          410          415
150 Lys Arg Ser Arg Glu Asp Ala Gly Asp Asn Asp Asp Thr Arg Gly Cys
151          420          425          430
153 Tyr Val Cys Gln Glu Gln Gly Gly Trp Arg Lys Asn Glu Glu Ala Glu
154          435          440          445
156 Arg Pro Leu Ile Thr Phe Met Lys Ala Arg Val Leu Leu Phe Cys Lys
157          450          455          460
159 Arg Glu Leu Glu Asn Glu Thr Cys Ser Asn Arg Asp His Glu Thr Glu
160 465          470          475          480
162 Ile Gly Gln Asn Cys Val Gln Asn Val Leu Ser
163          485          490
166 <210> SEQ ID NO: 4
167 <211> LENGTH: 25
168 <212> TYPE: PRT
169 <213> ORGANISM: Human papillomavirus type 16
171 <400> SEQUENCE: 4
172 Arg Pro Ile Pro Lys Pro Ser Pro Trp Ala Pro Lys Lys His Arg Arg
173 1          5          10          15
175 Leu Ser Asp Gln Asp Ser Gln Thr Pro
176          20          25
179 <210> SEQ ID NO: 5
180 <211> LENGTH: 8
181 <212> TYPE: PRT
182 <213> ORGANISM: Artificial Sequence
184 <220> FEATURE:
185 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
186          octapeptide antigen
188 <400> SEQUENCE: 5
189 Met Ala Asp Pro Ala Ala Ala Thr
190          5
193 <210> SEQ ID NO: 6
194 <211> LENGTH: 3
195 <212> TYPE: PRT
196 <213> ORGANISM: Artificial Sequence
198 <220> FEATURE:
199 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
200          octapeptide antigen
202 <400> SEQUENCE: 6
203 Ala Asp Pro Ala Ala Ala Thr Lys

```

RAW SEQUENCE LISTING

DATE: 08/27/2002

PATENT APPLICATION: US/10/008,524A

TIME: 11:28:50

Input Set : A:\PTO.DC.TXT

Output Set: N:\CRF3\08272002\J008524A.raw

```

209 <212> TYPE: PRT
210 <213> ORGANISM: Artificial Sequence
212 <220> FEATURE:
213 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
214     octapeptide antigen
216 <400> SEQUENCE: 7
217 Asp Pro Ala Ala Ala Thr Lys Tyr
218     1             5
221 <210> SEQ ID NO: 8
222 <211> LENGTH: 8
223 <212> TYPE: PRT
224 <213> ORGANISM: Artificial Sequence
226 <220> FEATURE:
227 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
228     octapeptide antigen
230 <400> SEQUENCE: 8
231 Pro Ala Ala Ala Thr Lys Tyr Pro
232     1             5
235 <210> SEQ ID NO: 9
236 <211> LENGTH: 8
237 <212> TYPE: PRT
238 <213> ORGANISM: Artificial Sequence
240 <220> FEATURE:
241 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
242     octapeptide antigen
244 <400> SEQUENCE: 9
245 Ala Ala Ala Thr Lys Tyr Pro Leu
246     1             5
249 <210> SEQ ID NO: 10
250 <211> LENGTH: 8
251 <212> TYPE: PRT
252 <213> ORGANISM: Artificial Sequence
254 <220> FEATURE:
255 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
256     octapeptide antigen
258 <400> SEQUENCE: 10
259 Ala Ala Thr Lys Tyr Pro Leu Leu
260     1             5
263 <210> SEQ ID NO: 11
264 <211> LENGTH: 8
265 <212> TYPE: PRT
266 <213> ORGANISM: Artificial Sequence
268 <220> FEATURE:
269 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
270     octapeptide antigen
272 <400> SEQUENCE: 11

```

RAW SEQUENCE LISTING

DATE: 08/27/2002

PATENT APPLICATION: US/10/008,524A

TIME: 11:28:50

Input Set : A:\PTO.DC.TXT

Output Set: N:\CRF3\08272002\J008524A.raw

```

278 <211> LENGTH: 8
279 <212> TYPE: PRI
280 <213> ORGANISM: Artificial Sequence
282 <220> FEATURE:
283 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
284     octapeptide antigen
286 <400> SEQUENCE: 12
287 Thr Lys Tyr Pro Leu Leu Lys Leu
288     1           5
291 <210> SEQ ID NO: 13
292 <211> LENGTH: 8
293 <212> TYPE: PRT
294 <213> ORGANISM: Artificial Sequence
296 <220> FEATURE:
297 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
298     octapeptide antigen
300 <400> SEQUENCE: 13
301 Lys Tyr Pro Leu Leu Lys Leu Leu
302     1           5
305 <210> SEQ ID NO: 14
306 <211> LENGTH: 8
307 <212> TYPE: PRT
308 <213> ORGANISM: Artificial Sequence
310 <220> FEATURE:
311 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
312     octapeptide antigen
314 <400> SEQUENCE: 14
315 Tyr Pro Leu Leu Lys Leu Leu Gly
316     1           5
319 <210> SEQ ID NO: 15
320 <211> LENGTH: 8
321 <212> TYPE: PRT
322 <213> ORGANISM: Artificial Sequence
324 <220> FEATURE:
325 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
326     octapeptide antigen
328 <400> SEQUENCE: 15
329 Pro Leu Leu Lys Leu Leu Gly Ser
330     1           5
333 <210> SEQ ID NO: 16
334 <211> LENGTH: 8
335 <212> TYPE: PRT
336 <213> ORGANISM: Artificial Sequence
338 <220> FEATURE:
339 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
340     octapeptide antigen
342     octapeptide antigen

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/008,524A

DATE: 08/27/2002
TIME: 11:28:51

Input Set : A:\PTO.DC.TXT
Output Set: N:\CRF3\08272002\J008524A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:174; N Pos. 24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42

Seq#:174; N Pos. 43,44,45,46,47,48,49

Seq#:177; N Pos. 41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59

Seq#:177; N Pos. 60,61,62,63,64,65,66

Seq#:178; N Pos. 24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42

Seq#:178; N Pos. 43,44,45,46,47,48,49

VERIFICATION SUMMARY

DATE: 08/27/2002

PATENT APPLICATION: US/10/008,524A

TIME: 11:28:51

Input Set : A:\PTO.DC.TXT

Output Set: N:\CRF3\08272002\J008524A.raw

L:11 M:2/1 C: Current Filing Date differs, Replaced Current Filing Date

L:2905 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:174 after pos.:0

L:2950 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:177 after pos.:0

L:2951 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:177 after pos.:60

L:2969 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:178 after pos.:0



OIPE

RAW SEQUENCE LISTING

DATE: 08/20/2002

PATENT APPLICATION: US/10/008,524A

TIME: 14:26:13

Input Set : A:\Cms0377.txt

Output Set: N:\CRF4\08202002\J008524A.raw

3 <110> APPLICANT: Doorbar, John
 5 <120> TITLE OF INVENTION: IMPROVEMENTS IN OR RELATING TO SCREENING FOR PAPILLOMA
 6 VIRUSES
 8 <130> FILE REFERENCE: 18396/1074
 10 <140> CURRENT APPLICATION NUMBER: 10/008,524A
 C--> 11 <141> CURRENT FILING DATE: 2002-08-13
 13 <150> PRIOR APPLICATION NUMBER: 09/314,268
 14 <151> PRIOR FILING DATE: 1999-05-18
 16 <160> NUMBER OF SEQ ID NOS: 179
 18 <170> SOFTWARE: PatentIn Ver. 2.1

ERRORED SEQUENCES

2973 <210> SEQ ID NO: 179
 2974 <211> LENGTH: 4
 2975 <212> TYPE: PRT
 2976 <213> ORGANISM: Artificial Sequence
 2978 <220> FEATURE:
 2979 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
 2980 peptide
 2982 <400> SEQUENCE: 179
 2983 Asp Glu Ala Asp
 2984 1
 E--> 2985 104
 E--> 2988 104

VERIFICATION SUMMARY

DATE: 08/20/2002

PATENT APPLICATION: US/10/008,524A

TIME: 14:26:15

Input Set : A:\Cms0377.txt

Output Set: N:\CRF4\08202002\J008524A.raw

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:2905 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:174 after pos.:0
L:2950 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:177 after pos.:0
L:2951 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:177 after pos.:60
L:2969 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:178 after pos.:0
L:2985 M:332 E: (32) Invalid/Missing Amino Acid Numbering. SEQ ID:179
M:332 Repeated in SeqNo=179